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1 Shape-based retrieval and analysis of 3D models
   Thomas Funkhouser, Michael Kazhdan
   August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
   Publisher: ACM ⟡ Request Permissions
   Full text available: 📄 Pdf (12.56 MB)   Additional Information: full citation, abstract

   Bibliometrics: Downloads (6 Weeks): 389, Downloads (12 Months): 952,   Citat

   Large repositories of 3D data are rapidly becoming available in several f
   CAD, molecular biology, and computer graphics. As the number of 3D m
   increasing need for computer algorithms to help people find ...

2 Group motion graphs
   Yu-Chi Lai, Stephen Chenney, ShaoHua Fan
   July 2005   **SCA '05:** Proceedings of the 2005 ACM SIGGRAPH/Eurographic
   animation
   Publisher: ACM
   Full text available: 📄 Pdf (380.32 KB)   Additional Information: full citation, abstract, r

   Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 81,   Citation

   We introduce Group Motion Graphs, a data-driven animation technique
   such as flocks, herds, or small crowds. Group Motion Graphs are concep
   constructed from motion-capture data, but have some ...

3 Texture mapping 3D models of real-world scenes
   Frederick M. Weinhaus, Venkat Devarajan
   December 1997 **Computing Surveys (CSUR)** , Volume 29 Issue 4
   Publisher: ACM ⟡ Request Permissions
   Full text available: 📄 Pdf (1.98 MB)   Additional Information: full citation, abstract, r

   Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 358,   Citatio

   Texture mapping has become a popular tool in the computer graphics ir
   because it is an easy way to achieve a high degree of realism in comput
   very little effort. Over the last decade, texture-mapping ...

   Keywords: anti-aliasing, height field, homogeneous coordinates, imagε
   image warping, multiresolution data, perspective projection, polygons, ι

generation, rectification, registration, texture mapping, visual simulator

4 Computational modeling and simulation of heart ventricular mechani
Zhenhua Hu, Dimitris Metaxas, Leon Axel
June 2005　**SPM '05:** Proceedings of the 2005 ACM symposium on Solid an
Publisher: ACM

Full text available: 📄 Pdf (330.76 KB)　　　Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 9,　Downloads (12 Months): 62,　Citation

Heart ventricular mechanics has been investigated intensively in the las
material properties, the ventricular geometry and muscular architecture
activation are among the most important determinants of cardiac ...

Keywords: EM algorithm, finite element method, myocardium, stiffnes

5 Globally smooth parameterizations with low distortion
Andrei Khodakovsky, Nathan Litke, Peter Schröder
July 2003　**SIGGRAPH '03:** SIGGRAPH 2003 Papers
Publisher: ACM 🔖 Request Permissions

Full text available: 🎬 Mov (21:29 MIN), 📄 Pdf (7.26 MB)　Additional Information: full citatio
index ter

Bibliometrics: Downloads (6 Weeks): 19,　Downloads (12 Months): 94,　Citation

Good parameterizations are of central importance in many digital geom
the behavior of such processing algorithms is related to the smoothness
how much distortion it contains. Since a parameterization ...

Keywords: compression, parameterization, rate distortion, resampling,

Also published in:
July 2003 **Transactions on Graphics (TOG)** Volume 22 Issue 3

6 Hierarchical triangular splines
Alex Yvart, Stefanie Hahmann, Georges-Pierre Bonneau
October 2005 **Transactions on Graphics (TOG)** , Volume 24 Issue 4
Publisher: ACM 🔖 Request Permissions
Full text available: 📄 Pdf (8.91 MB)　　　Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 12,　Downloads (12 Months): 85,　Citation

Smooth parametric surfaces interpolating triangular meshes are very us
arbitrary topology. Several interpolants based on these kind of surfaces
last fifteen years. However, with current 3D acquisition ...

Keywords: Bézier patches, G^1-continuity, Geometric modeling, arbitra
splines, interpolation, local frames, multiresolution, triangular meshes

7 Visualization of molecular quantum dynamics: a molecular visualizat
Web3D and haptics

R. Andrew Davies, Nigel W. John, John N. MacDonald, Keith H. Hughes
March 2005 **Web3D '05:** Proceedings of the tenth international conference
Publisher: ACM ◈ Request Permissions
Full text available: 🗎 Pdf (1.78 MB)   **Additional Information:** full citation, abstract, re

The Department of Chemistry and the School of Informatics at the Univ
working together to create tools for the visualization of molecular quant
presents the results of our initial work. A prototype Molecular ...

Keywords: VRML, haptics, molecular quantum dynamics, visualization

8 Surface modeling and parameterization with manifolds
  ◈ Cindy Grimm, Denis Zorin
    July 2005 **SIGGRAPH '05:** SIGGRAPH 2005 Courses
    Publisher: ACM ◈ Request Permissions
    Full text available: 🗎 Pdf (6.69 MB) **Additional Information:** full citation, references

9 Large steps in cloth simulation
  ◈ David Baraff, Andrew Witkin
    July 1998   **SIGGRAPH '98:** Proceedings of the 25th annual conference on
                 interactive techniques
    Publisher: ACM ◈ Request Permissions
    Full text available: 🗎 Pdf (465.12 KB)   **Additional Information:** full citation, references

Keywords: cloth, constraints, implicit integration, physically-based mo

10 Silhouette rendering based on stability measurement
  ◈ John Brosz, Faramarz Samavati, Mario Costa Sousa
    April 2004   **SCCG '04:** Proceedings of the 20th spring conference on Comp
    Publisher: ACM
    Full text available: 🗎 Pdf (877.58 KB)   **Additional Information:** full citation, abstract, re

A better silhouette for a mesh can be rendered if we take into account t
outside the current silhouette. Using the dot product between the norm:
can measure this stability. This gives us two ...

Keywords: non-photorealistic rendering, quality silhouette extraction,
coherence

11 Pictographic matching: a graph-based approach towards a language
   exploitation platform
  ◈ Mark A. Walch, Donald T. Gantz
    November 2004 **HDP '04:** Proceedings of the 1st ACM workshop on Hardcop
    Publisher: ACM ◈ Request Permissions

In this paper, we introduce the concept of Pictographic Matching as a to
across multiple languages. The primary technology supporting Pictograp
based pattern matching to detect the <i> signature</i> ...

Keywords: OCR, OWR, optical character recognition, optical word reco

12 Stylized rendering of 3D scanned real world environments
Hui Xu, Baoquan Chen
June 2004 **NPAR '04:** Proceedings of the 3rd international symposium on
and rendering
Publisher: ACM Request Permissions

This paper presents an interactive non-photorealistic rendering (NPR) sy
outdoor scenes captured by 3D laser scanning. In order to deal with the
inherent incompleteness of data obtained from outdoor ...

Keywords: 3D scanning, interactive 3D graphics, multi-resolution, non
point-based rendering

13 Line drawings from volume data
Michael Burns, Janek Klawe, Szymon Rusinkiewicz, Adam Finkelstein, Doug
July 2005   **SIGGRAPH '05:** SIGGRAPH 2005 Papers
Publisher: ACM Request Permissions

Renderings of volumetric data have become an important data analysis
from medicine to scientific simulation. We propose a volumetric drawing
sparse linear features, such as silhouettes and suggestive ...

Keywords: NPR, isosurface, silhouettes, suggestive contours, visualiza

Also published in:
July 2005 **Transactions on Graphics (TOG)** Volume 24 Issue 3

14 Sketch-based modeling with few strokes
Joseph Jacob Cherlin, Faramarz Samavati, Mario Costa Sousa, Joaquim A.
May 2005   **SCCG '05:** Proceedings of the 21st spring conference on Comp
Publisher: ACM

We present a novel sketch-based system for the interactive modeling of objects using just a few strokes. Our technique is inspired by the traditi depicting 3D forms where the basic geometric forms ...

Keywords: free-form surfaces, sketch-based interfaces/modeling

15 Holographic Video Display of Time-Series Volumetric Medical Data
Wendy Plesniak, Michael Halle, Steven D. Pieper, William Wells III, Marian
Stephen A. Benton, Charles R. G. Guttmann, Ron Kikinis
October 2003 **VIS '03**: Proceedings of the 14th IEEE Visualization 2003 (VI
Publisher: IEEE Computer Society
Full text available: 🔲 Pdf (368.10 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 57,   Citation

We describe an animated electro-holographic visualization of brain lesio multiple sclerosis. A research case study is used which documents the e lesions in a series of magnetic resonance imaging (MRI) ...

Keywords: electro-holography, holographic video, computer generated display, medical imaging

16 Measuring and predicting visual fidelity
Benjamin Watson, Alinda Friedman, Aaron McGaffey
August 2001 **SIGGRAPH '01**: Proceedings of the 28th annual conference on
interactive techniques
Publisher: ACM ✦ Request Permissions
Full text available: 🔲 Pdf (616.16 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 17,   Downloads (12 Months): 68,   Citation

This paper is a study of techniques for measuring and predicting visual use polygonal models, and vary their fidelity with two different model si also group the stimuli into two object types: ...

Keywords: human vision, image quality, model simplification, naming

17 CPR: curved planar reformation
Armin Kanitsar, Dominik Fleischmann, Rainer Wagenkittl, Petr Felkel, Meist
October 2002 **VIS '02**: Proceedings of the conference on Visualization '02
Publisher: IEEE Computer Society
Full text available: 🔲 Pdf (2.29 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 25,   Citation

Visualization of tubular structures such as blood vessels is an important way to display tubular structures for diagnostic purposes is to generate order to show their lumen, wall, and surrounding ...

Keywords: computed tomography angiography, curved planar reforma

18 DAB: interactive haptic painting with 3D virtual brushes
Bill Baxter, Vincent Scheib, Ming C. Lin, Dinesh Manocha
August 2001 **SIGGRAPH '01:** Proceedings of the 28th annual conference on interactive techniques
Publisher: ACM ◆ Request Permissions
Full text available: 📄 Pdf (10.82 MB)   Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 72, Citation

*We present a novel painting system with an intuitive haptic interface, w
vehicle for interactively creating painterly works. We introduce a deform
gives the user natural control of complex brush ...*

Keywords: Human Computer Interaction, deformable brush model, ha

19 Photorealistic hair modeling, animation, and rendering
Nadia Magnenat-Thalmann
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM ◆ Request Permissions
Full text available: 📄 Pdf (17.68 MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 152, Citatic

20 Environment matting and compositing
Douglas E. Zongker, Dawn M. Werner, Brian Curless, David H. Salesin
July 1999 **SIGGRAPH '99:** Proceedings of the 26th annual conference on interactive techniques
Publisher: ACM Press/Addison-Wesley Publishing Co.
Full text available: 📄 Pdf (1.76 MB)   Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 64, Citation

Keywords: alpha channel, augmented reality, blue spill, blue-screen m
transparency, environment map, environment matte, image-based rend
design, reflection, refraction

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